	Application No.	Applicant(s)
Notice of Allowability	09/827,531	SMITH ET AL.
	Examiner	Art Unit
	Peter Choi	3623
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in the common of the c	n this application. If not included unication will be mailed in due course. THIS
1. A This communication is responsive to amended claims sul	bmitted on 10/12/05.	
2. The allowed claim(s) is/are <u>1-18</u> .		
 Acknowledgment is made of a claim for foreign priority to a)	ve been received. ve been received in Applicati	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
 5. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 6. DEPOSIT OF and/or INFORMATION about the deposition of the bad Street and a second as a	rson's Patent Drawing Revie r's Amendment / Comment of 1.84(c)) should be written on the header according to 37 Cosit of BIOLOGICAL MAT	the drawings in the front (not the back) of FR 1.121(d).
attached Examiner's comment regarding REQUIREMENT	,	OLOGICAL MATERIAL.
Attachment(s)	5 🗆 W (1) (1)	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application (PTO-152) Summary (PTO-413),
Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	Paper No.	/Mail Date <u>20051013</u> : Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's	Statement of Reasons for Allowance Susanna M. Diaz PRIMARY EXAMINER AU 3623

Art Unit: 3623

DETAILED ACTION

1. Claim 19 has been canceled. Claims 1-18 are pending in the application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Venk Krishnamoorthy on October 11, 2005.

The Amendment filed on 7/27/05 was incomplete. The Applicant did not address claim 16, inadvertently and incorrectly stating that claim 16 did not exist. The Examiner contacted the attorney of record, Venk Krishnamoorthy, to obtain an amended copy of the claims that included every claim to be considered for patentability. The Examiner also obtained permission from Mr. Krishnamoorthy to enter the amended claims as an Examiner's Amendment in order to expedite the allowance process.

Application/Control Number: 09/827,531 Page 3

Art Unit: 3623

Response to Amendment

Drawings

- 3. The drawings were received on 7/27/05. These drawings are acceptable.
- 4. All previous drawing rejections made in the Office Action dated 4/27/05 are withdrawn in view of replacement drawings and amendments made to the specification.

Specification

5. Amendments to the specification are accepted.

Allowable Subject Matter

1. Claims 1-18 are allowed. The following is a statement of reasons for the indication of allowable subject matter: The cited prior art taken alone or in combination fails to teach the claimed invention set forth in claims 1-18.

Specifically, the invention set forth in claims 1-18 is directed to a (computer-implemented) method, machine-readable medium, and apparatus for forecasting item availability in view of reported and unreported sales, and a plurality of customer inputs,

Art Unit: 3623

including when they expect to arrive at the store, the number of units they desire to purchase, and how frequently the product inventory levels and availability forecasts are updated.

The Applicant has acted as their own lexicographer and has employed special definitions for:

- "shop time" the number of time increments expected to elapse before customer visits store to purchase an item
- "delay time" difference between current time and shop time
- "experience level" number of time units of observation for the sales of a particular product.

Prior art systems do not teach the step of performing a convolution of sales rate distributions in order to obtain a probability of item availability of a product at an expected time of transaction.

Prior art systems do not teach the step of summing a plurality of convolution values in order to obtain a probability of the availability of the item at the end of the delay time.

Prior art systems do not teach the step of calculating a sales variance for an unreported sales rate of an item based on an experience level parameter.

Art Unit: 3623

The closest prior art on record is Gupta et al. (PGPub US2003/10074349), who teaches a method and apparatus for displaying the real-time status of product availability, orders, and sales revenue. Gupta et al. teaches the step of querying a database at regularly recurring time intervals for information regarding product availability. Gupta et al. teaches the step of performing statistical analysis on (reported) sales data, but does not teach the step of calculating the unreported sales rate. While the teachings of Gupta et al. are used in obtaining information regarding the availability of products, it does not teach or fairly suggest the combination of the steps of: generating a convolution of probability distributions modeling product sales, representing sales using a negative binomial probability distribution or using an "experience level" parameter to determine the sales rate (reported or unreported) of an item.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Art Unit: 3623

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Peter Choi whose telephone number is (571) 272 6971.

The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

Peter Choi Examiner Art Unit 3623

October 13, 2005

SUSANNA M. DIAZ
PRIMARY EXAMINER

Page 6

AU 3623